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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/015,365	12/13/2001	Bruce Robie	Implex-18	2786	
28581 75	90 06/03/2005		EXAM	EXAMINER	
DUANE MORRIS LLP			STOKES, CANDICE CAPRI		
PO BOX 5203					
PRINCETON,	NJ 08543-5203	08543-5203		PAPER NUMBER	
			3732		
			DATE MAILED: 06/03/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Summany	10/015,365	ROBIE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Candice C. Stokes	3732	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the dearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a repon. a reply within the statutory minimum of thirty (eriod will apply and will expire SIX (6) MONTH statute, cause the application to become ABAI	y be timely filed 30) days will be considered timely. IS from the mailing date of this communication. IDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on	This action is non-final. owance except for formal matter		
Disposition of Claims			
4) ⊠ Claim(s) <u>1,3,5-7,9-13,15-17,19-21,23,25-2</u> 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3,5-7,9-13,15-17,19-21,23,25-2</u> 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	hdrawn from consideration. <u>27,29-33,35-37 <i>and</i> 39-46</u> is/are		
Application Papers			
 9) The specification is objected to by the Exa 10) The drawing(s) filed on 12/31/01 is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the 	D⊠ accepted or b) objected to o the drawing(s) be held in abeyanc orrection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for a	ments have been received. ments have been received in Ap priority documents have been rureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S	~ ¬ ¬ ¬	mmary (PTO-413) 'Mail Date ormal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	÷:	

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/17/05 has been entered.

Claim Objections

Claim 1 is objected to because of the following informalities: in lines 8-9, "the first plurality of teeth" should read "the second plurality of teeth" and in lines 11-12, "measured between the the first" should read "measured between the first". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,3,10-13,20,21,23,30-33,40-41 and 45-46 are rejected under 35 U.S.C. 102(e) as being anticipated by Hamada (USPN 6,436,101). With respect to Claims 1,10,11,20,21,30,31, and 40 Hamada discloses "an instrument for distracting a disc space between adjacent vertebrae

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and simultaneously preparing endplates of the vertebrae 451". "Instrument 451" having "a body 455 having an upper surface 457" and lower surface 471". Furthermore, "instrument 451" comprises "a first plurality of teeth 507 extending across the upper surface 457" and "a second plurality of teeth 521 extending across the lower surface 471" as best seen in FIG. 44. As to Claims 12 and 32, FIG. 37 shows the upper and lower surfaces 457,471 taper posteriorly such that the body has a thickness that decreases from the "anterior end 477" to the "posterior end 475". With regards the Claims 3,13,23, and 33 as best shown in FIG. 35, "the instrument 451", further comprises "an inserter 105" removably coupled to "the body 455".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1) Claims 9,19,29, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada. Hamada discloses the claimed invention except for the upper and lower surfaces of the instrument taper from the anterior end to the posterior end at an angle of about 7 degrees. It would have been obvious to one having ordinary skill in the art at the time of the invention to design the instrument such that it decreased at an angle of about 7 degrees from the anterior end to the posterior end, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

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2) Claims 5-7,15-17,25-27,35-37 and 42-44 are rejected under 35 U.S.C. 103(a) as being

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unpatentable over Hamada in view of Waldman (USPN 5,342,365). Hamada discloses the

claimed invention with the exception of the first and second plurality of teeth including anterior

wedges surfaces and posterior shovel surfaces. Regarding Claims 5,15,25, and 35 Waldman

further teaches the plurality of teeth including arcuate root surfaces 26. As to Claims 6,16,26,

and 36 wedge surfaces 38 and shovel surfaces 28 intersect to define cutting edges 42. It would

have been obvious to one having ordinary skill in the art at the time of the invention to

incorporate the wedge and shovel surfaces as taught by Waldman into the instrument disclosed

by Hamada in order to maintain the sharpness of the rasp and prevent build-up of excess tissue

between the teeth of the rasp.

Regarding Claims 7,17,27, and 37, Hamada and Waldman teach the claimed invention

except for the wedge and anterior surfaces angling back at the indicated angles. It would have

been obvious to one having ordinary skill in the art at the time the invention was made to angle

the surfaces back at 60 and 10 degrees relative to the imaginary line, since it has been held that

discovering an optimum value of a result effective variable involves only routine skill in the art.

In re Boesch, 617 F. 2d 272, 205 USPQ (CCPA 1980).

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Response to Arguments

Applicant's arguments filed 05/17/05 have been fully considered but they are not persuasive. Applicants submit that the disclosure provided by the Hamada patent of record does not teach or suggest an instrument or system comprising the presently recited structure of independent claims 1,11,21,31, and 45-46 and request that the rejection under U.S.C. 102 (e) be withdrawn. The Examiner asserts that the Hamada reference of record does meet the limitations of the independents claims as currently presented. Specifically to the amended portion of the independent claims, Hamada does teach a instrument with an upper and lower surface defining a body thickness that continuously decreases from anterior end to posterior end as shown in Fig. 17. The thickness of the body at the anterior end or at its maximum height is shown as being "SS". Further, Fig. 17 also shows that the first plurality of teeth are in a first plane and the second plurality of teeth are in the second plane. Therefore, Claims 1,3,5-7,9-13,15-17,19-21,23,25-27,29-33,35-37,39-40 and 41-46 remain rejected.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Candice C. Stokes whose telephone number is (571) 272-4714. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Candice C. Stokes

Can/E. O'Connor Primary Examiner